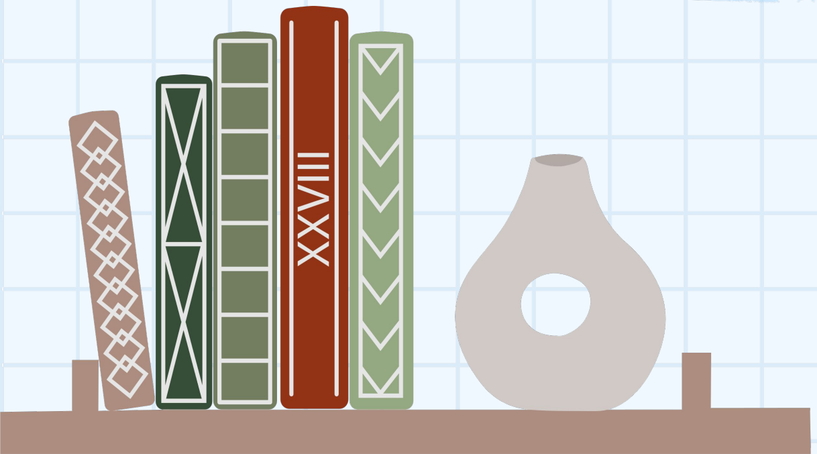
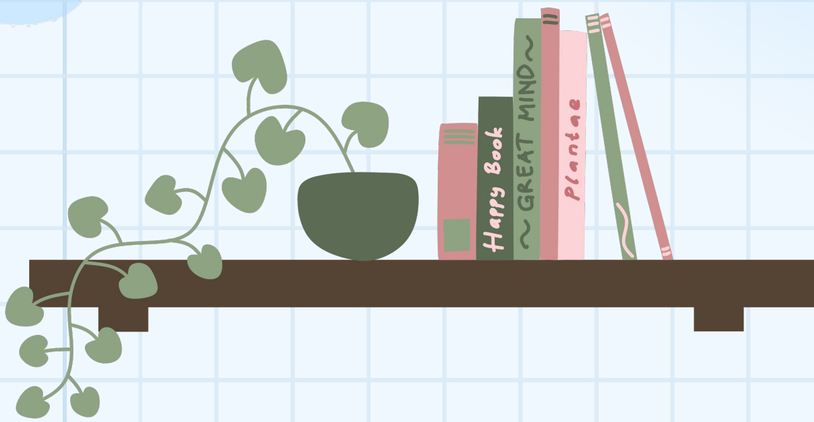
Powered by
Futurense

BS./BSC.IN

Applied ai and Data Science

Basics of Data Analytics





Powered by

Futurense

Let's dive into and learn:

1 Generative AI for Data Analytics

What is Generative AI

Powered by Futurense

- GenAI is a form of artificial intelligence that uses machine learning to generate new content based on a variety of inputs.
- Gen AI is a category of AI that focuses on creating new synthetic data.
- Unlike traditional AI models that predict or classify, generative models generate entirely new data points, opening a realm of possibilities for data analytics.

What can Generative AI do for Data

Powered by

Futurense

- Generative AI can create synthetic data sets, solving the challenge of limited data availability, or privacy issues
- It creates synthetic data sets and augments existing ones, providing analysts with diverse and enriched data for robust analysis and model training.

What can Generative AI do for Data

Powered by Futurense

- It can fill in missing data, providing a more complete picture for analysts and data scientists.
- It can transform data into different representations is another frontier.
- Generative AI can convert texts into images or vice versa, giving analysts new perspectives and creative ways to represent complex information.

What can Generative AI do for Data

Powered by

Futurense

- Generative AI contributes by automating and enhancing data cleaning, normalization, transforming processes, and streamlining the path from raw data to actionable insights.
- When it comes to querying databases, generative AI brings efficiency and innovation.
- It can assist in formulating complex queries, optimizing database interactions, and adapting to evolving data structures.

What can Generative AI do for Data

Powered by

Futurense

- Generative AI can enhance the quality and aesthetics of data visualizations, making them informative and visually striking.
- Can make visually appealing representations, making complex information more accessible and engaging.
- Can combined with dynamic visualization tools e.g. Tableau AI, IBM Cognos AI and Google's Looker AI

What can Generative AI do for Data

Powered by

Futurense

- Different Generative AI for different specific purposes.
    - Open AI GPT is a potent, fine-tunable language model for tasks like Q&A.
    - BERT, a Google-developed pre-trained model, excels in contextual understanding, enhancing the capacity to comprehend and respond to user queries in Q&A application.

Recap

Powered by Futurense

Gen AI in Data Analytics

Powered by
Futurense

Thank you